

## ASG Guard II / ASG Defender Specification Matrix

In general, the ASG Guard II and ASG Defender have nearly identical functionality. The focus of the 1.0.1 version of the ASG Defender was to port the functionality of the ASG Guard II to run on the hardware platform and Linux OS of ION Networks' 5600 platform. As a result, the vast majority of the functionality of the two products is identical. There is minimal if any need for re-training users who are familiar with the ASG Guard II prior to using an ASG Defender. Where it was appropriate, the functionality and capability of the ASG Defender was increased to take advantage of the 5600's superior hardware. Major examples where functionality was increased are encryption support (AES, SFTP, SCP), increased storage capacity and a dramatic increase in overall performance. The attached table compares the hardware and software from the ASG Defender with the ASG Guard II in detail.

	ASG Guard II	ASG Defender
Hardware Specifications		
Architectural Design	Dual board - Motorola chip on mainboard + x86 chip on Coprocessor	Single x86 Processor
Processor Speed	Mainboard: 33Mhz - Coprocessor varies	600Mhz
Memory	2Mb Non-Volatile; 32Mb Volatile	128Mb Non-Volatile; 256Mb Volatile
Available Storage	30Mb (Volatile)	68Mb (Non-Volatile)
Ethernet Interfaces	2 - External: 10/100 Auto-Sensing Internal: 10BaseT	2 - Internal and External: 10/100 Autosensing with ability to lock speed and duplex
Modems	2 - Internal (different modems for domestic and global use)	1 - Internal v.90/k56Flex Global Modem
Serial Ports	4, 16, 28	2, 4
Contact Closures	5	5 (Four-port only)
Temperature Inputs	2	3 (Four-port only)
Relay Outputs	2	None
USB Ports	0	4 (For future use)
Appliance Dimensions	17in W x 1.75in H x 11in D; 8 lbs.	12in W x 2.1in H x 11in D; 6 lbs.
Shipping Dimensions	23in W x 5in H x 16in D; 9 lbs.	16in W x 6in H x 14in D; 7lbs.
Software Specifications		
Operating System	WindRiver PSOS on mainboard; Linux 2.4.24 on CoProcessor. ION Application runs on mainboard, Linux provides security features	Linux: 2.6.11 Kernel with ION Application running on Linux. No access to linux prompts, commands, or shell
Concurrent Sessions	16	16
IP Device Limit	30	30
Max. User Count	100	200
Authentication Types	Password, Callback, Challenge/Response, RADIUS	Password, Callback, Challenge/Response, RADIUS, rlogin
Challenge/Response Algorithms	DES, 3DES	DES, 3DES
Encrypted Key Storage	3DES	3DES
Supported Encryption Protocols	DES, 3DES	DES, 3DES, AES
Firewall	IPTables v1.2.6a	IPTables v1.3.1
Communication Protocol Specifications		
Serial	Yes	Yes
Telnet	Client and Server, Proxy	Client and Server, Proxy
SSH	Client and Server, Proxy	Client and Server, Proxy
FTP	Client and Server	Client and Server
SFTP	None	Client
SCP	None	Client
HTTP/HTTPS	Proxy (PPP and IPSec)	Proxy (PPP and IPSec)
IPSec	Client and Server	Client and Server
PPTP	Server	Server
Binary File Transfer	xmodem	xmodem, zmodem
Device-Specific Features		
Endpoint Connection Support	conhost, con, cont, cona, js, jsa	conhost, con, cont, cona, js, jsa, connect
Session Capture	Telnet, SSH	Telnet, SSH
User Tables	Separate Avaya and Customer Tables	Separate Avaya and Customer Tables
Available Logs	Access History, Failure History, Log History, Alarm Log	Access History, Failure History, Log History, Alarm Log
Alarm Handling	Serial, SNMP (S8xx0, Modular Messaging), Internal	Serial, SNMP (S8x00, Modular Messaging), Internal
Alarm Delivery	SNMP, SMTP, PPP, ASCII, Pager, Relay	SNMP, SMTP, PPP, ASCII, Pager